

Resume Analyzer with Optimization and Job Recommendation System

Pratik Ugalmugale¹, Rushikesh Rajapure², Shruti Sabale³, Samruddhi Tajanpure⁴

Students, Department of Computer Engineering¹⁻⁴

Matoshri College of Engineering & Research Centre, Nashik, Maharashtra, India

Abstract: *The Resume Optimizer and Job Recommendation System project aims to modernize the job application and recruitment process through a unified digital platform integrated with artificial intelligence. This system allows job seekers to create ATS-compliant resumes, browse and apply for jobs, and receive personalized job recommendations through a user-friendly interface. Employers can post job listings, manage candidate applications, and utilize AI-based tools for automated resume screening and applicant ranking. A central feature of the platform is its AI engine, which performs resume parsing, skill matching, and job alignment based on candidate profiles and employer requirements. The system supports multiple user roles, including job seekers, employers, and administrators, each with role-specific functionality for streamlined operations. Additional features include a resume builder, skill assessment modules, quiz evaluations, and LinkedIn integration for enhanced candidate profiling. Administrators can monitor platform usage, manage user accounts, and generate detailed recruitment analytics. Overall, this platform enhances efficiency and decision-making in the recruitment ecosystem by leveraging AI for data-driven insights, automated workflows, and intelligent job-candidate matching.*

Keywords: Resume Builder, Job Recommendation, Artificial Intelligence, ATS Optimization, Candidate Ranking, Skill Assessment, Recruitment Automation, Digital Platform, Career Portal

